

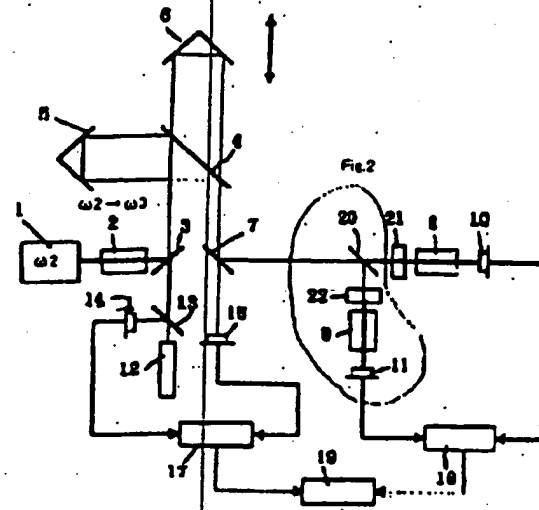
1) JP8-117083

2) Filed: Apr. 15, 1996

3) Inventors: Hitoshi Kawai, Jun Kawakami, Kouichi Tsukihara

4) Comment:

Reduction of crosstalk caused by light leakage at polarization beam splitter.



1: light source for index measurement

2: SHG element ($\omega_2 \rightarrow \omega_3$)

4: polarization beam splitter

5: reference path

6: signal path

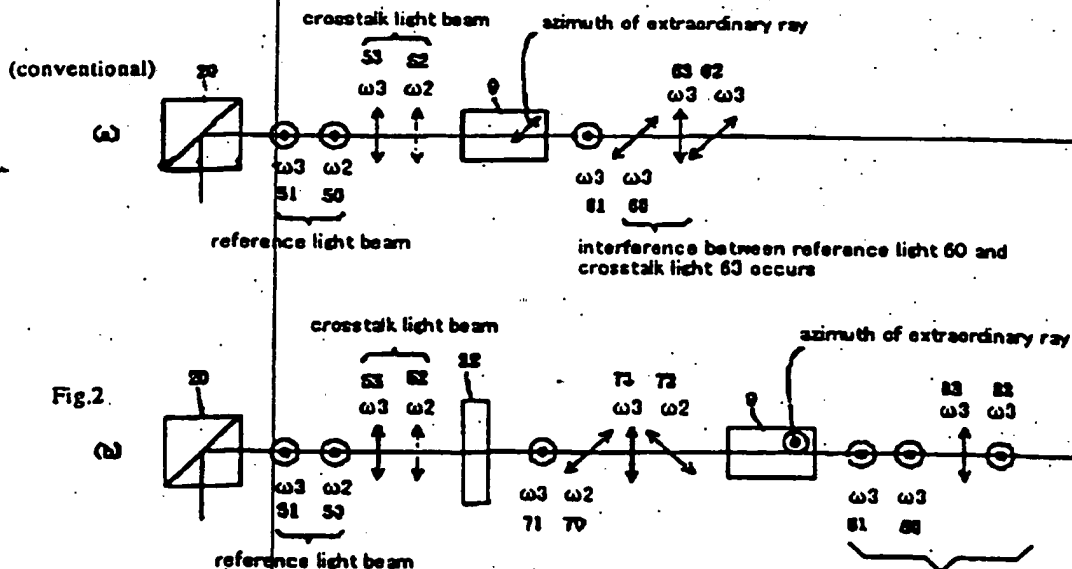
12: light source to measure stage moving
(like He-Ne laser)

17, 18: phase meter

19: calculator

20 to 11: for reference path index measurement
(refer to Fig. 2)

20 to 10: for signal path index measurement



interference between 81 and 82 occurs, but it's negligible.
because light intensity of 82 is very weak under the action
of SHG element 9.

9: SHG element

20: polarization beam splitter

22: It acts like λ plate for ω_3 , but also acts like $\lambda/2$ plate for ω_2